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World Intellectual Property Organization
International Bureau**(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT
COOPERATION TREATY (PCT)**

(51) International Patent Classification⁶ C12N		A2	(11) International Publication Number WO 99/24553 (43) International Publication Date 20 May 1999 (20.05.1999)	
(21) International Application Number PCT/US98/23905 (22) International Filing Date 10 November 1998 (10.11.1998) (30) Priority Data 08/966,987 10 November 1997 (10.11.1997) US 08/967,403 10 November 1997 (10.11.1997) US 08/966,932 10 November 1997 (10.11.1997) US 08/967,148 10 November 1997 (10.11.1997) US 08/976,741 24 November 1997 (24.11.1997) US 60/089,581 17 June 1998 (17.06.1998) US 60/089,580 17 June 1998 (17.06.1998) US 09/100,763 18 June 1998 (18.06.1998) US 09/100,631 18 June 1998 (18.06.1998) US 09/100,529 18 June 1998 (18.06.1998) US 09/100,762 18 June 1998 (18.06.1998) US 09/100,521 18 June 1998 (18.06.1998) US (61) Related by addition to earlier applications or grants US 09/100,631 (CIP) Filed on 18 June 1998 (18.06.1998) US 09/100,763 (CIP) Filed on 18 June 1998 (18.06.1998) US 09/100,529 (CIP)			(81) Designated States (national) AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW (84) Designated States (regional) ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG)	

Filed on 18 June 1998 (18.06.1998)
 US 09/100,762 (CIP)
 Filed on 18 June 1998 (18.06.1998)
 US 09/100,521 (CIP)
 Filed on 18 June 1998 (18.06.1998)

Published

*without international
 search report and to be
 republished upon receipt
 of that report*

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(54) Title CRYSTAL COMPRISING HUMAN IMMUNODEFICIENCY VIRUS ENVELOPE
 GLYCOPROTEIN gp120, COMPOUNDS INHIBITING CD4-gp120 INTERACTION,
 COMPOUNDS INHIBITING CHEMOKINE RECEPTOR-gp120 INTERACTION,
 MIMICS OF CD4 AND gp120 VARIANTS

No Image Available.

(57) Abstract

The subject invention provides a crystal suitable for X-ray diffraction comprising a polypeptide having an amino acid sequence of a portion of a Human Immunodeficiency Virus envelope glycoprotein gp120. The subject invention also provides the above-described crystals, wherein the crystal is arranged in a space group P2221, so as to form a unit cell of dimensions $a=71.6 \text{ \AA}$, $b=88.1 \text{ \AA}$, $c=196.7 \text{ \AA}$, and which effectively diffracts X-rays for determination of the atomic coordinates of the gp120 to a resolution of 2.5 \AA or better. The subject invention additionally provides compounds inhibiting the CD4-gp 120 interaction, compounds inhibiting chemokine receptor-gp120 interaction, mimics of CD4, gp120 variants and uses thereof.



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